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 There were 12 telephone centrals in Riga located as follows and each with the number of engineers shown:

District I	Main Central Office at Audeju Iela #15	12	engineers
District II	Krisjan Barova and Matisa Iela	5	engineers
District III	Barinu Iela (post office)	2	engineers
District IV	Dzirnavu and Hanzas Iela (post office)	1	engineer
District V		1	engineer
District VI	Brtvibas Gatve (post office) Meza Parks Koknes Prospekta (post office)	2	engineers
District VII	Sarkandaugava-Duntes Iela and Tiltu Iela	1	engineer
District VIII	Vecmilgravi-Vecmilgravju Iela (post office)	1	engineer
District IX	Ilgeciem-Lilijas Iela (post office)	1	engineer
District X	Bolderaja (post office)	1	engineer
District XI	Majori-Rigas Jurmala (post office)	1	engineer
District XII	Kemeri-Rigas Jurmala (sanatorium)	1	engineer

- 4. Following were the main government and private switchboards:
  - (1) Pils Castle-Ministry of Defense

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- (2) Ministry Kabinets un Arlietu Ministrija Cabinet Ministry and Ministry for Foreign Affairs located on Valdemara Iela near the officers club.
- (3) Tekslietu Ministrija Ministry of Home Affairs located on Brivibas Iela #37/39.
- (4) Kara Ministrija War Office Valdemara Iela #10/12
- (5) Zemkoptbas Ministrija Ministry of Agriculture located on the corner of Kalpska Bulvari and Reimeru Iela.
- (6) Financu Ministrija Ministry of Finance located on Valdemaras Iela.
- (7) Latvijas Banka The National Bank located on Valdemaras Iela and Pils Laukims Azpazijas Bulvari.
- (8) Tiesl Ministrije un Senats Ministry of Courts and Senate located on Elizabetes Iela and Brivibas Bulvari.
- (9) Satikames Ministrija Ministry of Communications located in the Railway Administration Building on Gogula Iela.
- (10) Valsts Kontrols General Accounting Office located on the corner of Valdemaras Iela and Aissarge Iela.
- (11) Pilsetas Valde City Hall located at #5 Kenimu Iela.
- (12) Prefektura Prefecture located at the main Post Office on Azpasijas Bulvari. This was destroyed in 1945.
- (13) Aprinka Prieksnieks District Department located on the corner of Skolas Iela and Stabu Iela.
- (14) Rigas Mutnica Customs Department Valdemaras Iela Pie Daugavas.
- (15) Valsts Zemes Banks State Agricultural Bank located on the corner of Valdemaras Iela and Citadeles Iela.
- (16) Universitate University located between Kelpaka Bulvari and Raina Bulvari.
- (17) Nacionals Opera National Opera located on Azpazijas Bulvari and Testra Iela, a city building under the Riga Department of Culture.
- (18) Nacionaleis Teatris National Theatre located on Valdemaras Iela and Zigfrid-Melrovie Bulvari, a city building under the Riga Department of Culture.
- (19) Romas Viesnica Hotel de Rome located on Azpazijas Bulvari and Teatra Iela. Destroyed in 1945.
- (20) I Pilsetas Slimnica Ist Town Hospital located on the corner of Valdemara Iela and Aizsargu Iela.
- (21) II Pilsetas Slimnica IRod Town Hospital located on Zasulsuka and Maza Nometum Iela.
- (22) Kara Slimmics Military Hospital located on Hospital Iela Pie Meza-Parks.

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(23) Rigas Pilsetas Uznemum Nodala - Rigas Pilsetas Valda - Zigfrid Meirovica Bulvari #10 - City Hall - for Electrical, Water, Gas, Engineering and Architects Offices.

(24) Kara Aprinka Prieksnieks - District War Office - located at Valdemara
Tela and Pils Laukums on the Daugava River.

- (25) Jurniccibas Departments Citadelle Navigation Department located at Valdemars lels and Pils Laukums, opposite the National Bank.
- (26) <u>Tabklajibas Ministrija</u> <u>Ministry of Welfare</u> located on Skolas <u>Iela</u> and Stabu <u>Tela</u>.
- (27) Kara Fabrika Latvijas Valsts Military Arsenal Zasulauka at II Town Hospital.

(28) Bernu Slimnica Jelgavas Soseja - Childrens Hospital.

- (29) Fabrika "Vairoks" Mechanical Factory located at Brivibas Gatve at Bikernieku Iela.
- (30) Fabrika "Verfs" The Verts Factory located on Brivitas Gatue at Bergonas Iela.
- (31) Gumijas Fabrika "Kvadrats" Kvadrats Rubber Fabrication Factory located at Latgales Jeb Maskayas Iela Pie Kenguraga.
- (32) Rigas Pilsetas Gazes Fabrika Riga Gas Factory located at Valmieras Iela Pie Wagomu Iela.
- (33) Rigas Pilsetas Galvena Udens Piegade Balt-Ezera Fabrika Stacija Riga Water Department - located at Zigfrid Meirovica Bulvari #10.
- (34) Central Cietums Central Prison located at the Matisa Church Graveyard.
- (35) Interim Prison No 2 for Women and Men located at the Military Hospital.
- (36) Tran Depot on Brivibas Iela across from main churchyard City Engineering Department of Communication all city motor vehicles garaged here.
- (37) Ilgeciema Stikla Fabrica Glass Factory located in Ilgeciem at Daugavgrivas Iela near airdrome.
- (38) Ilgeciema Cement Fabrika Cement Factory located in Ilgeciem near the airdrome and the Daugava River.
- (39) Riga . Railway Station NKVD Telephone Center located on the second floor of the station.
- (4Q) Jossen Forcelam Fabrica Jessen Porcelain Factory located in Milgravi Netalu - not far from the railroad station.
- (41) Oelrich Ella Fabrika Oil refinery located in Milgravi on the Daugava River near the railroad station.
- (42) Manufakturas Fabrika Feldhun Manufacturing Company located at Zasulauka at the Nordiki Railway Station.
- (43) Armijas Ekonomiskais Veikals Military Economics Office located on the corner of Valma Rela and Audeju Tela across from the main telephone central.
- (44) Provodnik Fabrika Gumijas Izstradajums Provodnik Rubber Factory located at the bridge over Sarkandaugava at Tilta Iela.
- (45) Farlaments Parliament located at Jekaba Iela Pie Jekaba Baznicas (Jekaba Church)
- (46) Zasulaukas Manufaktura Fabrika Zasulaukus Manufacturing Company located at the Zasulauks Railway Station.
- (47) Motocikla Fabrika "Erenpreis" the Erenpreis Motorcycle Factory located on Brivibas Iela at the viaduct near the tram-depot.
- (48) Mangaisala Cietums Military only. Twelve military lines, partly underground, partly aerial:
- (49) Citadel military only located across the river from Mangaisals.
- (50) Shipbuilding plant at Milgravia
- (51) Military area (tank and armoured division) south of airdrome.
- (52) Kudzin Sale State radio station
- 5. The Latvian telephone net was very good, all communities of importance and all post office and railroad station towns having telephone service. The estimated technical capacity of central offices was five hundred thousand telephones. However, there were only two hundred thousand subscribers (approximately) up to 1945. All who wanted service could be accommodated.

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6. The telephone system employed excellent engineers and technicians. The central city of Riga was divided into six main telephone districts plus the suburban districts. Each main district had about 60 permanent technicians. During the summer months (when most of the maintenance and repair work took place) this number was raised to three hundred for each district. Starting in April of each year, work got underway on installing new lines, replacing needed poles, checking all cables, checking and making necessary changes on all switchboards, digging new tunnels and installing new underground cables. All main repair jobs were planned ahead in order to provide the necessary time needed for requisitions of material to be filled. This material was both domestic and foreign. All requisitions had to be channeled through the Ministry of Communications during the winter months. A deadline was always set for delivery.

7. The equipment was adequate and of good quality. Foreign equipment came from AEG and Schukert companies in Germany

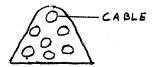
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The latvian manufacturing plant VERF /Valsts Electrotechniska Fabrika - VEF/ in Riga supplied equipment on order. In 1935 the government started a plan to replace all equipment possible with that made by VERF. Most switch-boards and telephone sets were replaced by VERF equipment except for some in private concerns. VERF also made much of the cable used although those of a size 200 X 2 and larger were imported from Czechoslovakia for it was found that the Czech cable was best for underground installation. 500 X 2 was the largest size cable used. Whenever foreign equipment was purchased, foreign technicians were invited to supervise the installation.

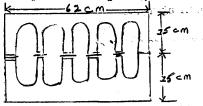
8. The main, underground cables had from one thousand to two thousand separate telephone wires. Each wire was rubber insulated and was colored red, white or blue for identification. The whole cable was encased in lead about five mm thick. Originally the cables were encased in concrete sections as follows:



This style was abandoned and the following method of installation was adopted. Concrete forms one meter in length and 62 cm wide were made to accommodate five cables in such a fashion:



A similar section would be placed on top to form conduits



If more than five cables were to be laid these sections would be placed on top of one another.

9. I have drawn a sketch (Sketch #11) of a street profile showing the telephone cables as well as electric power cables, one on each side of the street, a system adhered to throughout the city. This particular sketch (#11.) shows the man holes of each type of cable-capal.

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- 10. Sketch #12 is a street corner profile which shows a typical 5, 10 and 15 cable installation. As can be seen, the concrete, sectional canals are laid 85 cm under the pavement. Sketch #13 reflects the cable system of the city of Riga as it existed in 1944. Solid green lines indicate underground cable, the broken green lines the aerial cables. In Sketch #14 I have shown the cable system at the corner of Piesstatnes and Tvaiku Ielas where it leads off to the west to the radio station at Kundzin Sala and the fashion in which it is laid under the river. After Kudzin Sala cut off, the cable continues on to District VIII of Vecmilgravi where it becomes aerial rather than underground. In Sketch #15 are shown the Cable Posts I and II from which the telephone wires lead off serially to the subscriber.
- 11. Telephone poles used were usually pine impregnated with creosote They measured 12 meters above ground and  $2\frac{1}{2}$  meters underground, with the underground portion charred to prevent rot. The tops of the poles were capped with tin. Poles were spaced about 20 meters apart. The number of cross arms depended upon the number of wires. The wires were spaced about 15 cm apart and were fastened on domestic porcelain insulators of the screw type. Cross arms were bolted to the pole and supported by a 1-inch steel band. Wooden braces supported the pole on the leeward side or else they were anchored by a cable. Splices were covered by aluminum cartridges or sleeves. Individual wires were bare. Where the poles carried cable, the cable was insulated with aluminum or some light metal and covered with a tar treated fabric. Distribution boxes were installed on poles where necessary. Telephone poles did not share space with any other service and were for telephone wires only. In Sketch #16 I have shown the method of lead off from street canalization to subscriber. FOL

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